

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 11207951 A

(43) Date of publication of application: 03 . 08 . 99

(51) Int. Cl. B41J 2/045
B41J 2/055

(21) Application number: 10010850

(22) Date of filing: 22 . 01 . 98

(71) Applicant: BROTHER IND LTD

(72) Inventor: SUZUKI SHOGO

(54) INK JET PRINTER, AND INK DISCHARGE
CONTROL METHOD FOR INK JET PRINTER

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an ink jet printer which is capable of surely preventing an ink leakage from an ink discharge hole which remains inoperative without ink discharge from occurring.

SOLUTION: Vsorce (ON) voltage with a waveform having an amplitude and a gradient for discharging the ink is applied to a piezoelectric element in an ink storage chamber for ink discharge. For the piezoelectric element in the ink storage chamber which remains inoperative without ink discharge, the Vsorce (OFF) voltage which maximizes the internal volume of the ink storage chamber is applied to the piezoelectric element in the ink storage chamber which remains inoperative at the point of time when a pressure wave reaching the interior of the inoperative ink storage chamber peaks. The gradient of the rising waveform of the Vsorce (OFF) voltage is more moderate than that of the Vsorce (ON) voltage.

COPYRIGHT: (C)1999,JPO

